

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name: Alcoa Micromill
1400 Waltham Way
Sparks, NV 89434
(mailing address)

Permit Number: NEV96007

Location: Alcoa Micromill
1400 Waltham Way
McCarran, Storey County, NV 89434
Tahoe-Reno Industrial Center
Latitude: 39° 33' 22" N, Longitude: 119° 31' 52" W
Township 20N, Range 22E, Section 32

General: Alcoa Micromill operates an aluminum rolling mill research and development center with product lines including aluminum beverage can stock and pie tins. An on-site production well supplies water to the facility. Process wastewater from this facility is generated from non-contact cooling tower blowdown, 0.02 MGD; evaporative cooler blowdown, 0.007 MGD; and reverse osmosis (R.O.) waste (reject stream), 0.003 MGD. Additional wastewater in this facility, which is not discharged to the environment, is generated from the water quench and rolling mill coolant streams. The non-discharged wastewater is internally recycled. The recycled wastewater generates an oily wastewater stream, which is collected and removed by a contracted waste hauler.

In August 2002, Alcoa Micromill Facility connected its domestic (sanitary) sewer line to the Tahoe-Reno Industrial Center Wastewater Treatment Facility (#NEV2000502). Prior to August 2002, Alcoa Micromill treated its domestic wastewater in an on-site Cyclic Aerobic Sewage Treatment (CAST) Plant. The CAST Plant produced tertiary-treated, denitrified effluent, which was discharged to an on-site leachfield. The CAST Plant is now inoperative and removed from the permit.

Instead of an evaporation pond, the facility discharges the non-contact process wastewater on-site for irrigation. The facility has planted six acres of willow trees, which are irrigated with the non-contact process wastewater flow and supplemental potable water. Irrigation water is delivered sub-surface. The facility's Effluent Management Plan (EMP) indicates that the irrigation system has a lifespan of 25 years before salts (sodium) would build up to levels potentially detrimental to tree growth. The facility applies supplemental fertilizer (nitrogen and phosphorus) to enhance tree growth, but groundwater nitrate concentration must be maintained below the State limit.

Receiving Water Characteristics: Average depth to groundwater at the irrigation site is 54 ft. below ground surface. The general direction of groundwater flow is north to the Truckee River. The facility is located ½ mi. south of the Truckee River.

Flow: The discharged wastewater flow is limited to 0.03 MGD and generally maintained below 0.01 MGD. The approximate TDS content of the discharged process wastewater is 500 mg/L, which equates

to 2-3 cooling tower cycles prior to blowdown.

Proposed Effluent Limitations and Special Conditions:

Table 1: Discharge Limitations (Non-Contact Process Wastewater)

PARAMETER	DISCHARGE LIMITATIONS	MONITORING REQUIREMENTS	
		Measurement Frequency	Sample Type
Discharge Flow, MGD	Daily Maximum 0.03	Continuous	Flow Meter
pH, S.U.	Within 6.0 – 9.0	Monthly	Discrete
Total Dissolved Solids, mg/L	Monitor & Report	Quarterly	Discrete
Profile 1 Analysis	Monitor & Report	Annually (4 th Quarter)	Discrete

Table 2: Groundwater Monitoring (MW-1, MW-2 & MW-3)

PARAMETER	GROUNDWATER LIMITATIONS	MONITORING REQUIREMENTS	
		Measurement Frequency	Sample Type
TDS, mg/L	Monitor & Report	Quarterly	Discrete
Chlorides, mg/L	Monitor & Report	Quarterly	Discrete
Nitrate as N, mg/L	10.0	Quarterly	Discrete
Total Nitrogen as N, mg/L	Monitor & Report	Quarterly	Discrete
Depth to Groundwater, ft	Monitor & Report	Quarterly	Field Measurement
Groundwater Elevation, ft	Monitor & Report	Quarterly	Calculation

Schedule of Compliance: There is no Schedule of Compliance requirement.

Procedures for Public Comment: The Notice of the Division's intent to issue (renew) discharge permit #NEV96007, subject to the conditions contained within the permit is being sent to the **Comstock Chronicle** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand-delivered items) to the Division is **November 3, 2003 by 5:00 P.M.** A copy of the public notice and fact sheet can also be

downloaded from the Division's website at the following address: <http://ndep.nv.gov/admin/public.htm>
A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination: The Division has made the tentative determination to issue (renew) the proposed discharge permit for a period of five (5) years.

Prepared by: Mark A. Kaminski, P.E.
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Bureau of Water Pollution Control

Date: September 25, 2003

Saved to: Alcoa_factsheet